Quality Control – Traffic Signal Inspectors For ADOT Permits

QC-1 Permitee shall employ a full time independent Quality Control Technician (QCT) to over see the quality control for all Traffic Signal work performed under this permit. The QCT shall be present on the job site whenever work is performed on ADOT right-of-way.

A copy of the QCT certification(s) shall be given to the ADOT inspector for approval, before QCT works on the permit activities. ADOT reserves the right to use Department Inspectors if available.

The QCT shall have:

- knowledge and skill in applying and understanding of national and local electric codes.
- knowledge of specialized tools, equipment and materials related to the trade.
- knowledge and skill of reading and understanding blueprints, sketches and schematics of electrical and electronic components and circuits.
- skill in applying electrical and electronic principles, and knowledge of electrical theory.
- knowledge of methods and procedures for installing, repairing, diagnosing and inspecting traffic signals and illumination devices.
- have knowledge of safety practices.
- have skill as a journey level electrician.
- skill in working outdoors, at considerable heights with power sources up to 7200 volts.

The QCT shall be

- familiar with the MUTCD *Manual on Uniform Traffic Control Devices* and the AASHTO *Requirements for Structural Supports for Highway Signs, Luminaires and Traffic Signals*.
- familiar with the *ADOT Standard Specifications for Road and Bridge Construction*.
- IMSA Work Zone Safety Specialist certified and IMSA Traffic Signal Technician Level 1 certified.
- Familiar with Traffic Signal and Lighting Standard Drawings, Signing and Marking Standard Drawings, ADOT plans, specifications and contract procedures.

QC-2 Responsibility of the QCT shall include, but not be limited to the following:

1. Oversee all Traffic Signal construction activities performed in the permit.
2. Assure work is performed according to Permit Requirements, Special Provisions, specifications, plans, *Current edition of Traffic Signals & Lighting Standard Drawings* and *ADOT Standard Specifications for Road and Bridge Construction*, Current Edition.
3. Check concrete/concrete slurry delivery tickets to assure mix design and compressive strength meets specifications.
4. Oversee placement of concrete/concrete slurry to assure design and specifications are met.
5. Ensure the quality and effectiveness of work products.
6. Assure that all safety rules are followed.
7. Assure that all work complies with national and local electric codes.

8. Oversee traffic control placed for permit work to assure compliance to approved traffic control plan. If no traffic control plan is approved by ADOT, work shall not be allowed until an approved plan is received from ADOT for each activity involving traffic.
9. Assure work is performed with minimum impact to right-of-way and environment.
10. Provide quality control test results within the time frame specified within this permit.
11. Assure that a letter of compliance for control cabinet is sent to the utility company and that Electrical Notification Forms (ENF) and Load Calculation Forms are filled out and sent to Bill Majors, Mail Drop 013R. [Phone: 602-712-6793]
12. Once the project is completed according to the requirements of the permit, and before activation of the traffic signal, or release of the contractor from obligations, the permitee shall contact the ADOT Electrical Inspector or the Area Signal Maintenance Manager for written concurrence. He then shall provide a letter to ADOT stating the quality control met all specifications listing all items of work performed.

QC-3 Laboratory used to perform testing shall be certified by ADOT for tests performed, and shall provide test results if requested.